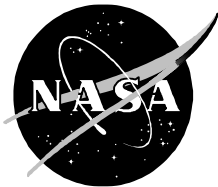# VERSION DESCRIPTION DOCUMENT FOR THE NASA ONLINE SUPPLY CATALOG (NOSC)

Release 3.6

PrISMS Contract

September 2002

National Aeronautics and
Space Administration

George C. Marshall Space Flight Center
Huntsville, AL 35812

**VERSION DESCRIPTION DOCUMENT
FOR THE
NASA ONLINE SUPPLY CATALOG (NOSC)
RELEASE 3.6**

Submitted by

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Reviewed by

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Configuration Management

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**VERSION DESCRIPTION DOCUMENT
FOR THE
NASA ONLINE SUPPLY CATALOG (NOSC)
RELEASE 3.6**

Approved by

Sheila Fogle
Consolidation Center Project Manager

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GEORGE C. MARSHALL SPACE FLIGHT CENTER
HUNTSVILLE, ALABAMA

September 2002

APPENDICES

1.0 INTRODUCTION

This Version Description Document (VDD) describes the changes and installation procedures for Release 3.6 of the NASA Online Supply Catalog (NOSC). This section identifies the release, describes its purpose, defines its scope, and identifies its contact points.

1.1 IDENTIFICATION OF THE RELEASE

This software release is identified as NOSC Release 3.6 and has an effective release date of September 27, 2002.

1.2 PURPOSE OF THE RELEASE

This release implements modifications necessitated by the following Change Control Requests (CCR):

CCR 975 – Expand Catalog Search Fields in both NSMS and NOSC
CCR 976 – SSC needs to be able to utilize the NSMS multi-line printing
           capability when generating orders in NOSC.
CCR 977 – Changes required before implementing online warehouse stock
           withdrawal.
CCR 981 – Headers need to align immediately above Technical Description
CCR 982 – Implement program stock authorization edits in NOSC core Natural
           module used to generate the issue transactions
CCR 983 – Ensure the maximum number of characters are entered for
           accounting data fields.
CCR 991 - Pagination in NOSC
CCR 993 - NOSC Tasking for SSC Component Image System (CIS)

1.3 SCOPE

This VDD provides the functional and technical user of NOSC with information regarding the contents, status, and structure of Release 3.6, including the following:

•   Changes implemented since Release 3.5.

•   References to other documentation affected by this release.

•   Detailed software installation instructions.

No waivers are associated with this release.

1.4 CONTACT POINTS

Sustaining Engineering for NOSC is provided through the Consolidation Center (CC) located at Marshall Space Flight Center (MSFC). Questions regarding the functional and/or the technical aspects as well as the installation of this release should be directed to:

The NACC Technical Services Center (Identify yourself as SESAAS & NOSC.)
          Telephone: (256) 544-6673
          Email: charmaine.styles-oscarson@msfc.nasa.gov
          FAX: (256) 544-1836

2.0 <u>FUNCTIONAL INFORMATION</u>

This section includes details regarding functional changes, functional interfaces, critical issues, affected documents, and application system administration.

2.1 FUNCTIONAL CHANGES

Please refer to Appendix C, Functional Change Validation Procedures, for a description of all functional changes related to this release. Appendix D, ADABAS/NATURAL Installation Instructions, describes the ADABAS/NATURAL software changes related to this release.

2.2 FUNCTIONAL INTERFACES

This release has a functional impact on the interface with the NASA Supply Management System (NSMS.)

2.3 CRITICAL ISSUES

The batch job used to register your Entire X Broker node and start the listener must have access to CICS.   (Refer to the NOSC 3.0 VDD for information about this job.)

2.4 AFFECTED DOCUMENTS

The following document is affected by this release:

NOSC User and Operations Guide (UOG)

2.5 APPLICATION SYSTEM ADMINISTRATION

There are no application system administration changes associated with this release.

3.0 TECHNICAL INFORMATION

This section includes details regarding technical system interfaces, data dictionary changes, software object changes, and database administration activities.

3.1 TECHNICAL SYSTEM INTERFACES

This release has an impact on the interface with the NASA Supply Management System (NSMS). **The NSMS 7.1.0 release must be installed prior to installing this release.**

3.2 DATA DICTIONARY CHANGES

There are no data dictionary changes in this release.

3.3 SOFTWARE OBJECT CHANGES

ADABAS/NATURAL modules affected by this release are included in Appendix D, Section 2.2.

3.4 DATABASE ADMINISTRATION

This section describes the database administration activities for the ADABAS/NATURAL installation of this release.

3.4.1 Release Dataset Names

Refer to Appendix D, Introduction section, for the release dataset names.

3.4.2 Inventory of Objects

Refer to Appendix D, Paragraph 2.1, for an inventory of ADABAS/NATURAL software modules impacted by this release.

3.4.3 Storage Considerations

The changes represented by this release should not affect storage requirements.

3.4.4 Installation Procedures

Refer to Appendix D, ADABAS/NATURAL Installation Instructions for NOSC Software Release 3.6 for detailed software installation procedures.

3.5 OPERATIONAL PREPARATION

Refer to the procedure described in Appendix D for assistance in preparing for proper ADABAS/NATURAL installation and operational use of this release.

4.0 <u>KNOWN AND OPEN PROBLEMS</u>

There are no known or open problems related to this release.

APPENDIX A
ABBREVIATIONS AND ACRONYMS

ABBREVIATIONS AND ACRONYMS

CC   Consolidation Center

CCR   Change Control Request

DIEC   Due In Electronic Commerce Transaction (JIT Transaction)

DIED   Due In Electronic Direct Buy Transaction

DOST   Due Out Stock Transaction (Backorder)

DR   Discrepancy Report

ISPR   Issue Stock Transaction

JCL   Job Control Language

JIT   Just-In-Time (Electronic Commerce - EC)

MSFC   Marshall Space Flight Center

NACC   NASA Automated Data Processing (ADP) Consolidation Center

NASA   National Aeronautics and Space Administration

NOSC   NASA Online Supply Catalog

RC   Requirements Change

SESAAS   Sustaining Engineering Support for Agencywide Administrative Systems

SSC   Stock Status Code

VDD   Version Description Document

APPENDIX B
GLOSSARY

GLOSSARY

Database Administration

Responsibility for maintaining the physical database environment.

Implementation

The process by which a NASA site installs a software release and places it into operational use.

Operational Preparation

Preparation by a NASA site for installation and use of a release.

System Administration

Responsibility for administrative functions such as application security and table data maintenance associated with an application.

APPENDIX C
FUNCTIONAL CHANGE VALIDATION
PROCEDURES

FUNCTIONAL CHANGE VALIDATION PROCEDURES

Index of changes in this release.

1.0 CCR Number 975

Functional Impact

There are 9 new searches available as a result of adding the propulsion component data. These are as follows:

1. Technical Name
2. Last Service
3. Maximum Allowable Pressure
4. Size
5. Maximum Working Temperature
6. Minimum Working Temperature
7. Manufacturer Name
8. Relative Pressure Rate
9. Serial Number

Validation Procedures

1. Execute the program, EDPUCEXS, in a batch job to extract NSMS data. This data will be loaded into the NOSC Oracle database. Sample JCL is provided in Appendix E. If your center prefers to extract customer id data and load it into NOSC as well, include EDPUCUST in the batch job.

2. Execute the batch job that uses FTP to download the NSMS extract data files to the Oracle database server. Sample JCL is provided in Appendix E.

3. Once the NSMS data files have been downloaded, the data must be imported into the NOSC Oracle database. Please contact Charmaine Styles-Oscarson at (256) 544-8503 or Sylvia Battles at (256) 544-8366. (When NOSC is implemented in production, the data imports will be scheduled to run automatically.)

4. When the data imports have completed, enter the web address to access NOSC and begin using the system:

   NOSC Web Address: http://noscap1.nacc.nasa.gov:8080/javadoc/NOSC.htm

5. Execute each search. Verify all hyperlink drill downs and navigation buttons work for each search. Verify all pertinent asset data is passed to each subsequent web page.

2.0 CCR Number 976

Functional Impact

Multi-line notice printing has been enabled in NOSC. When a user requests a warehouse stock withdrawal, the notices for the order may now be printed one at a time or queued for batch printing at a later time.

Validation Procedures

** Perform this step only if your center will be using the warehouse stock withdrawal order function in NOSC. **

1. Select a stock item to order using one of the Scan or Search functions. Complete all necessary entries on the Order Request screen. To test the multi-line printing, choose one of the selections in the Notice Print Option block. If Single Notice is chosen, a single notice will be printed following a successful order if this feature is implemented at your center. If Multi Notices – Print Now is chosen, enter a control number without any spaces in the Multi Line Control Number block. After the order is placed, a notice will print containing the single order. If Multi Notices – Print Later is chosen, enter a

control number without any spaces in the Multi Line Control Number block. The notice will not print following a successful order until a subsequent order is placed using the Multi Notices – Print Now selection. This allows multiple orders to be queued for printing at a later time. Then, all queued orders will print on a single notice.

3.0 CCR Number 977

Functional Impact

Some centers use the source document number for tracking purposes. When a stock withdrawal is requested, a unique source document number will be automatically generated and tracked in NOSC for any center wanting to use this feature. The format consists of the literal 'NOSC', today's date in the format of MMDDYY or '010302', plus a 4 digit sequence number.

Validation Procedures

** Perform this step only if your center will be using the warehouse stock withdrawal order function in NOSC. **

1. Select a stock item to order using one of the Scan or Search functions. Complete all necessary entries on the Order Request screen. If your center has requested the automatic generation of the source document number, this number should display in the Source Document Number block on the Order Request screen. After a stock withdrawal request is successful, the source document number is archived along with the other pertinent order information and may be viewed in Order History.

4.0 CCR Number 981

Functional Impact

The headers appearing in the Header block on the Catalog/Detail screen should align over the corresponding entries in the Technical Description block.

Validation Procedures

1. Select a stock item having header information to view or order using one of the Scan or Search functions. From the Catalog/Detail screen, verify the headers are aligned over the technical description entries.

5.0 CCR Number 982

Functional Impact

Authorization verification for Program Stock withdrawal requests will be handled from the NOSC core baseline instead of site unique processes.

Validation Procedures

** Perform this step only if your center will be using the warehouse stock withdrawal order function in NOSC. **

1. Select a Program stock item to view or order using one of the Scan or Search functions. From the Catalog/Detail screen, choose the View Quantity button. On the following screen, click the View Quantity button at the end of the page. If authorization exists for access to the Program stock item chosen, a message will be displayed indicating the current quantity. If no authorization exists, a message will be displayed indicating authorization does not exist. A similar scenario occurs when attempting to order. If authorization exists, either an order will be placed or some other message pertaining to the stock item will be displayed. If authorization does not exist, a message indicating so will be displayed.

6.0 CCR Number 983

Functional Impact

Some of the accounting fields must be completely filled. Therefore, additional edits were implemented to prevent partial entry. Currently, the accounting data requirements vary from center to center. However, the accounting field requirements are standard for centers that have transitioned to the core Integrated Financial Management system.

Validation Procedures

** Perform this step only if your center will be using the warehouse stock withdrawal order function in NOSC. **

1. Select a stock item to order using one of the Scan or Search functions. Complete all necessary entries on the Order Request screen including the accounting fields. Verify that partial entry is prevented for fields that require complete entry.

7.0 CCR Number 991

Functional Impact

Pagination buttons have been placed at the top and bottom of all screens for any function that may have multiple pages to display.

Validation Procedures

1. Verify all pagination buttons work for the Scans, Searches, Order History, and Administration where applicable.

8.0 CCR Number 993

Functional Impact

Users at Stennis Space Center now have the capability to view actual pictures of catalog items from the Catalog/Detail screen.

Validation Procedures

** This step is for SSC users only. **

1. Select a stock item to view using one of the Scan or Search functions. From the Catalog/Detail Screen, click the 'View Picture' button. If a picture is available for the item, a new browser window will open, and the image will be displayed. Otherwise, a message indicating the image is not available will be displayed in the new browser window.

**APPENDIX D
ADABAS/NATURAL
INSTALLATION INSTRUCTIONS
FOR NOSC SOFTWARE RELEASE 3.6**

INSTALLATION INSTRUCTIONS AND CHECKLIST
FOR NOSC SOFTWARE RELEASE 3.6

Introduction

Release information:

System Name:	NOSC
Release Number:	3.6
Release Date:	September 27, 2002
Effective Date:	September 27, 2002

*** IMPORTANT NOTE ***

This release has an impact on the interface with the NASA Supply Management System (NSMS). The NSMS 7.1.0 release must be installed prior to installing this release.

The following dataset is located on the Central Distribution Facility.

- xxMOV.NOSC.PROD.R360.R0902.SRC

In case of installation problems, contact the NACC Technical Services Center (Identify yourself as SESAAS & NOSC.)

Telephone:	(256) 544-6673
Email:	charmaine.styles-oscarson@msfc.nasa.gov
FAX:	(256) 544-1836

Installation Sequence

The sequence in which the installation of this release should occur is provided in the following list. A checklist is provided in Section 6.0 to assist in tracking the installation of this release.

1.0 Back Up Existing Data
2.0 Copy Source/Object Code
3.0 Catalog Source Code
4.0 Perform Release-Specific Procedures
5.0 Local JCL Mods
6.0 Installation Checklist

1.0 Back Up Existing Data

It is advisable to back up the NSMS library as a precautionary measure prior to installation.

2.0 Copy Source/Object Code

2.1 Copy Source Code

Load the NOSC source library from dataset xxMOV.NOSC.PROD.R360.R0902.SRC. The source programs were unloaded using the Natural utility NATUNLD. The programs will be loaded to the application library NSMS, replacing any existing programs of the same name. The source module counts included in this release are listed below:

Natural Source Modules by type	
GLOBAL DATA AREA	0
LOCAL/PARAM DATA AREA	6
MAPS	0
HELP ROUTINES	0
SUBROUTINES	5
SUBPROGRAMS	2
PROGRAMS	2
COPYCODE	0
TEXT	0
PROCESS	0
MISCELLANEOUS OBJECTS	0
Total:	**15**

2.2　List of Source Code Modifications

The following are the modules added, modified and deleted.

Added Modules:

There are no modules added in this release.

Changed Modules:

MODULE ID	MODULE DESCRIPTION	TYPE
1. EDDLTRIS	Local Data Area for EDSRTRIS	LDA
2. EDDLVCDB	Local Data Area for EDSRVCDB	LDA
3. EDDLVCIP	Local Data Area for EDSRVCIP	LDA
4. EDDLVCIS	Local Data Area for EDSRVCIS	LDA
5. EDDLVCJT	Local Data Area for EDSRVCJT	LDA
6. EDETBSRV	Registers the Broker ID and starts the listener.	PROGRAM
7. EDPUCEXS	Extracts NSMS data to be imported into NOSC Oracle database.	PROGRAM
8. EDSPVCOL	Module that determines if user is processing an order request or program stock quantity request	SUBPROGRAM
9. EDSPVCOR	Module that determines the type of order request to process	SUBPROGRAM
10. EDSRTRIS	Processes traceable asset order requests – ISPR transactions	SUBROUTINE
11. EDSRVCDB	Processes JIT direct buys - DIED transactions	SUBROUTINE
12. EDSRVCIP	Processes program stock order requests – ISPR transactions	SUBROUTINE
13. EDSRVCIS	Processes stock order requests - ISPR transactions	SUBROUTINE

MODULE ID	MODULE DESCRIPTION	TYPE
14. EDSRVCJT	Processes JIT orders from outside Vendors – DIEC transactions	SUBROUTINE
15. NFDLPRET	Local Data Area for preliminary end transaction processing.	LDA

Deleted Modules:

  There are no modules deleted in this release.

3.0 Catalog Source Code

Run a batch job to catalog (CATALL) all modules in the NSMS library or other named library. The SESAAS Batch standard parameters should be used for the compile.

After all objects are compiled, the NOSC application will run under the SESAAS batch standard parameters.

4.0 Perform Release-Specific Procedures

A new work file must be allocated and catalogued for the extract module EDPUCEXS. It will be referenced in EDPUCEXS as work file 16. The name of the new work file and associated attributes are as follows:

Name: XXXXX.ITEM.COMPNENT.DESC
                                              (XXXXX is your site's high level qualifier)

Logical Record Length: 96 bytes

Record Format: Fixed Length (FB)

5.0 Local JCL Mods

There are local JCL mods with this release. Please see Appendix E for sample JCL.

6.0 Installation Checklist

1.0 Back Up Existing Data
2.1 Copy Source Code
3.0 Catalog Source Code
4.0 Perform Release-Specific Procedures
5.0 Local JCL Mods

APPENDIX E
ADABAS/NATURAL
SAMPLE JOB CONTROL LANGUAGE FOR
RELEASE 3.6

SAMPLE JOB CONTROL LANGUAGE
FOR RELEASE 3.6

Sample JCL is listed for the EDPUCEXS in Release 3.6.

1. EDPUCEXS – NSMS Data Extract

```
********* ***************************** Top of Data ***********************************************
000001 //IRNOSC   JOB (XXXXXXXXX,503),NOSC,MSGCLASS=J,CLASS=M,
000002 //       NOTIFY=XXXXX
000003 /*JOBPARM LINES=100
000004 //* *********************************************************
000005 // JCLLIB ORDER=(SYS2.USERPROC)
000006 //STEP01   EXEC N02Z,PRM='MT=0'
000007 //CMPRINT  DD SYSOUT=(R,P3030132)
000008 //CMSYNIN  DD *
000009 NSTESTRC,NSBATCH
000010 %*
000011 NSBATCH
000012 EDPUCEXS
000013 NSNT
000014 EDPUORDR
000015 NSNT
000016 EDPUCUST
000017 FIN
000018 /*
000019 //CMPRT01  DD SYSOUT=(R,P3030132)
000020 //CMWKF01  DD DSN=MSIRM.NOSCDD.ITEM.GENTECH.NAME,DISP=SHR
000021 //CMWKF02  DD DSN=MSIRM.NOSCDD.ITEM.HEADERS,DISP=SHR
000022 //CMWKF03  DD DSN=MSIRM.NOSCDD.ITEM.DESC,DISP=SHR
000023 //CMWKF04  DD DSN=MSIRM.NOSCDD.ITEM.NSN,DISP=SHR
000024 //CMWKF05  DD DSN=MSIRM.NOSCDD.ITEM.PART.NUMBER,DISP=SHR
000025 //CMWKF06  DD DSN=MSIRM.NOSCDD.ITEM.TECH.DESC,DISP=SHR
000026 //CMWKF07  DD DSN=MSIRM.NOSCDD.ITEM.ASSET.INFO,DISP=SHR
000027 //CMWKF08  DD DSN=MSIRM.NOSCDD.ITEM.MFG,DISP=SHR
000028 //CMWKF09  DD DSN=MSIRM.NOSCDD.ITEM.AKANAME,DISP=SHR
000029 //CMWKF10  DD DSN=MSIRM.NOSCDD.ITEM.STATUS,DISP=SHR
000030 //CMWKF11  DD DSN=MSIRM.NOSCDD.ITEM.DLVRY,DISP=SHR
000031 //CMWKF12  DD DSN=MSIRM.NOSCDD.ITEM.USERS,DISP=SHR
000032 //CMWKF13  DD DSN=MSIRM.NOSCDD.ITEM.ORDER.TRACE,DISP=SHR
000033 //CMWKF14  DD DSN=MSIRM.NOSCDD.ITEM.CRITERIA.CODES,DISP=SHR
000034 //CMWKF15  DD DSN=MSIRM.NOSCDD.ITEM.NONTRACE.PGMSTOCK,DISP=SHR
000035 //CMWKF16  DD DSN=MSIRM.NOSCDD.ITEM.COMPNENT.DESC,DISP=SHR
******** ***************************** Bottom of Data ****************************************************
```

Sample JCL is listed for the FTP of data files for NOSC in Release 3.6.

2. FTP of Data Files Created by EDPUCEXS

```
****** **************************** Top of Data *********************************************
000001 //IRNOSC19 JOB (XXXXXXXXXXX,503),'NSMS',MSGCLASS=J,CLASS=M,
000002 //      REGION=4M,COND=(0,LT)
000003 //*
000004 //* ****************************************************************
000008 //* * This runstream FTP's the data to an Oracle Server
000009 //*
000010 //* * NOSCDEV.NACC.NASA.GOV   >>>>>>>> This Is Test
000011 //* * NOSCDB.NACC.NASA.GOV   >>>>>>>> This Is Production
000012 //* ****************************************************************
000013 //FTP EXEC PGM=FTP,REGION=4096K
000014 //INPUT  DD *
000015 noscdev.nacc.nasa.gov     /* Use noscdb for production instead of noscdev
000016 xxxxnsms   /* Replace your site's acronym with the x's (ex. msfcnsms, sscnsms)
000017 nasa$10
000018 locsite trail
000019 lcd 'MSIRM.NSMSDD'
000020 cd dev/data     /* Use  prod/data  for production
000021 dir
000022 put 'MSIRM.NSMSDD.ITEM.ASSET.INFO' item.asset.info
000023 put 'MSIRM.NSMSDD.ITEM.DESC' item.desc
000024 put 'MSIRM.NSMSDD.ITEM.GENTECH.NAME' item.gentech.name
000025 put 'MSIRM.NSMSDD.ITEM.HEADERS' item.headers
000026 put 'MSIRM.NSMSDD.ITEM.MFG' item.mfg
000027 put 'MSIRM.NSMSDD.ITEM.NSN' item.nsn
000028 put 'MSIRM.NSMSDD.ITEM.PART.NUMBER' item.part.number
000029 put 'MSIRM.NSMSDD.ITEM.TECH.DESC' item.tech.desc
000030 put 'MSIRM.NSMSDD.ITEM.AKANAME'    item.akaname
000031 put 'MSIRM.NSMSDD.ITEM.STATUS'     item.status
000032 put 'MSIRM.NSMSDD.ITEM.DLVRY'      item.dlvry
000033 put 'MSIRM.NSMSDD.ITEM.USERS'      item.users
000034 put 'MSIRM.NSMSDD.ITEM.ORDER.TRACE' item.order.trace
000035 put 'MSIRM.NSMSDD.ITEM.CRITERIA.CODES' item.criteria.codes
000036 put 'MSIRM.NSMSDD.ITEM.NONTRACE.PGMSTOCK' item.nontrace.pgmstock
000037 put 'MSIRM.NSMSDD.ITEM.COMPNENT.DESC' item.component.desc
000038 dir
000039 QUIT
000040 /*
000041 //OUTPUT DD SYSOUT=*
000042 //SYSPRINT DD SYSOUT=*
000042 //
****** **************************Bottom of Data *****************************************
```